

1 msdsgsqlgs mgsltmksql qitvisaklk enkknwfgps pyvevtvdgq skktekcnnt
 61 nspkwkqplt vivptpskjh frvwshqtlk sdvllgtaal diyetlksnn mkleevvvtl
 121 qlggdkepte tigdisicld glqlesevvt ngettcesa sqnndgsrsk detrvstngs
 181 ddpedagage nrrvgnnnsp slsnggfkps rpprpsrppp ptprrpasvn gspssatsesd
 241 gsstgslppt ntntntsega tsigliiplti sggsgprpln pvtqaplppg weqrvdqhgqr
 301 vyyvdhvekr ttwdrppepl pgwerrvdnm griyyvdhft rtttwqrptl esvrnyeqwq
 361 lqrsqlqgam qqfnqrifiy nqdlfatsqs kefdplgplp pgwekrtdsn grvyfvnhnt
 421 ritqwedprs qqqlnekplp egwemrftvd gipyfvdhnr rttyidprt gksaldngpq
 481 iayvrdfkak vqyfrfwcqg lampqhkik vtrktlfeds fqqimsfspq dlrrrlwvif
 541 pgeegldygg varewfflls hevlnpmycl feyagkdny lqinpasyin pdhlkyfrfi
 601 grfiamalh gkfidtgsfsl pfykrllnkp vglkdlesid pefynsliw kennieecdl
 661 emyfsvdkei lgeikshdlk pnggnilte enkeeyirmv aewrlsrgve eqtqaffegf
 721 neilpqqlq yfdakelevl lcgmqeidl dwqrhaiyrb yartskqimw fwqfvkeidn
 781 ekrmrllqfv tgtcrlpvgg fadlmgsngp qkfciekvgk enwlprshc fnrlldlppyk
 841 syeqlkekll faieetegfg qe (SEQ ID NO:1)

FIG. 1A

1 mgsltmksql qitvisaklk enkknwfgps pyvevtvdgq skktekcnnt nspkwkqplt
 61 vivptpskjh frvwshqtlk sdvllgtagl diyetlksnn mkleevvmtl qlvgdkepte
 121 tmgdlsvcld glqveaevvt ngetsccest tqnddgcctr ddtrvstngs edpevaasge
 181 nkrangnnsp slsnggfkps rpprpsrppp ptprrpasvn gspstnsdsd gsstgslppt
 241 ntntntse gatsgliipl tisggsgprp lntvsqaplp pgweqrvdqh grvyvvdhve
 301 krttwdrpep lppgwerrvd nmgrriyyvdh ftrtttwqrpt tlesvrnyeq wqlqrsqlqg
 361 amqqfnqrifi ygnqdlfats qnkefdplgp lppgwekrtd sngrvyfvnh ntritqwedp
 421 rsqqqlnekp lpegwemrft vdgipyfvdh nrrattyidp rtgksaldng pqiayvrdfk
 481 akvqyfrfwc qqqlampqhkik itvtrktlf dsfqqimsfs pqdlrrrlwv ifpgeegldy
 541 ggvarewffl lshevlnpmycl feyagkdny yclqinpasy inpdhlkyfr figrfiamal
 601 fhgkfidtgsfsl pfykrllnkp vglkdles idpefynsli wvkenneec glemyfsvdk
 661 eilgeikshd lkpggnilv teenkeeyir mvaewrlsrg veeqtqaffe gfneilpqy
 721 lqyfdakele vllcgmqeidl lndwqrhaiy rhytrtskqi mwfwqfvkei dnekrmrllq
 781 fvtgtcrlpv ggfadlmgsngp gpqkfciekv gkenwlprsh tcfnrldlpp yksyeqlkek
 841 llfaieeteg fgqe (SEQ ID NO:2)

FIG. 1B

BEST AVAILABLE COPIE

1 matcavevfg lledeensri vrvrviagig lakkdilgas dpyrvrtlyd pmngvltsvq
61 tktikkslnp kwneelfrv hqqhrlife vfdenrltrd dflgqvdpvpl yplptenprl
121 erpytfkdfv lhrshksrv kgylrikmtly lpktsgsedd naeqaelep gwvldqpd
181 achlqqqep splppgweer qdilgrtyyy nhesrtqwk rptpqdnlt aengniqlqa
241 qraftrrqi seetesvdnr essenweiir edeatmysnq afpspppssn ldvpthlaee
301 inarltifgn savsqpasss nhssrrgslq aytfeeqptl pvlptssgl ppgweekde
361 rgrsyyvdhm srttwtkpt vqatvetsql tssqssagpq sqastsdsgq qvtqpsieq
421 gflpkwgevr hapngrpffi dhntktttwe dprlkipahl rgkttsldtsn dlpplppwe
481 erthtdgrif yinhnikrtq wedprlenva itgpavpysr dykrkyeffr rklkkqndip
541 nkfemklrra tvledsyrrri mgvkradflk arlwiefdge kgldyggvar ewfffliskem
601 fnpyyglfey satdnytlqi npnsglcned hlsyfkfigr vagmavyhgk lldgffirpf
661 ykmmlhkpit lhdmesvdse ynslrwile ndpteldlrf iideelfgqt hqhelknngs
721 eivvtnknkk eyiyliqwr fvnriqkqma afkegffeli pqdlikifde nelellmcgl
781 gdvdvndwre htkyknngysa nhqviqfwk avlmmndsekr irllqfvtgt svpmngfae
841 lygsngpqsf tveqwgtpk lprahctcfnr ldlppyesfe elwdklqmai entqgfdgvd

(SEQ ID NO:3)

FIG. 2A

1 msgiltsvqt ktikkslnpk wneelfrvl pqrhrilfev fdenrltrdd flggqvdpvly
61 plptenprme rpytfkdfv lhrshksrvk gyrlrikmtly pkngsedena dqaeelsgew
121 vvlldqpdaat hlppepasp lppgweerqd vlgryyyvh esrrtqwksp spdddltded
181 nddmqlqqr afttrrqise dvgpdnres penweivred enteysgqav qspssghidv
241 qthlaeefnt rlavcgnpat sqpvtssnhs srggslqtc feeqptlpvl lptssglppg
301 weekqddrgr syyvdhnskt ttwskptmqa dprskipahl rgkttsndlg plppgweert
361 htdgrvffin hniktqwed prlqnvaitag pavpysrdy kryeffrrkl kkqtdipnkf
421 emklrranil edsyyrrimgv kradllkarl wiefdgekgl dyggvarewf fliskemfnp
481 yyglfeysat dnytlqinp sglcnedhls yfkgrvag mavyhgklll gffirpfykm
541 mlqklltld mesvdseyys slrwilendp teldlrfiied eelfggthqh elktggseiv
601 vtnknkkeyi ylviqwrfnv riqkqmaafk egffelipqd likifdenel ellmcglgdv
661 dvndwrehtk yknngysmnhq vihwfwkavw mmdsekrl lqfvtgtarv pmngfaelyg
721 sngpqsfvte qwgtpdklpr ahtcfprldl ppyesfdew dklqmaient qgfdgvd

(SEQ ID NO:4)

FIG. 2B

1 magnvkkssg aggggtgsqgs gsgglliglmk dafqphhhhh hhlsphppgt vdkkmvekcw
 61 klmdkvvrlc qmpklalkns ppyildllpd tyqhlrtils ryegkmetlg eneyfrvfme
 121 nlmkkktkqti slfkegkerm yeensqprn ltklsifsh mlaelkgifp sglfqgdtfr
 181 itkadaaefw rkafgektiv pwksfrqalh evhpiissgle amalkstidl tcndyisvfe
 241 fdiftrlfqp wsslrrwns lavthpgyma fltydevkar lqkfihkgps yifrlsctrl
 301 gqwaigvta dgnilqtipn nkplfqalid gregfylfp dgrnqnpdlt glceptpqdh
 361 ikvtqeqyel ycengstfql ckicaendkd vkiepcghlm ctscltswqe segqgcpfcr
 421 ceikgtepiv vdpfdprgsg sllrqgaega pspnyddddd eraddtlfmm kelagakver
 481 ppspfsmmapq aslppvppr1 d1lpqrvcvp ssasalgtas kaasgslhkd kplpvptl
 541 dlppppppdr pysvgaesrp qrrplpctpg dcpsrdrklpp vpssrlgdsw lprpipkvpv
 601 sapsssdpwt greltnrhs1 qfslpsqmepr rpdvprlgst fsldtsmsmm ssplvgpecd
 661 hpkikpssa naiyslaarp lpvpk1ppge qcegeedtey mtppssrplrp ldtsqssrac
 721 dc当地idscyeamyniqsq apsitesstf gegrnlaaha ntgeesene ddgydvpkpp
 781 vpavlarrtl sdisnasssf gwlsldgdpt tnvtsgvpr erppkpfprr inserkagsc
 841 qqgsgpaasa ataspqlsse ierlmsqgys yqdqkalvi ahnniemakn ilrefvsiss
 901 pahvat (SEQ ID NO:5)

FIG. 3A

1 magnvkkssg aggggsgggsg aggliglmkd afqphhhhhh lsphppctvd kkmvekcwkl
 61 mdkvvrlcqn pnvalknsp yildllpdy qhlrtvlsry egkmetlgen eyfrvfmenl
 121 mkktkqtisl fkegkermye ensqprnrlt klsifshml aelkgifpsg lfqgdtfr
 181 kadaaefwrk afgektivpw ksfrqalhev hpiissgleam alkstidltc ndyisvfefd
 241 iftrlfqws sllrnwns1 vthpgymaf1 tydevkarlq kfihkgpsyi frlsctrl
 301 waigvtdag nilqtipnq plfqalidg regfylfpdg rnqnpdltgl ceptpqdhik
 361 vtqicaendk dvkiepcghl mctscltswq eseqgcpfc rceikgtep1 vvdpfdr
 421 gsllrqgaeg apspnyddddd deraddslf mkelagakve rpsspfsmmap qaslpvppr
 481 1d1lqqrapv pastsvlgta skaasgslhdk dkplp1p1p1 rdlppppppd rpysvgaetr
 541 pqrrplpctp gdcpssrdrklpp pvpssrpqds wlsrtipkvp vatpnpgdpw ngrltnrhs
 601 lpfslpsqme pradvprlgs tfslldtsmtm nsspavagpes ehpkikpss anaiyslaar
 661 plpmpk1ppg egeesedte ymtptsrpvg vqkpepkp1 eatqssracd cdqqqidscty
 721 eamtyiqsqa lsavaensasg egnlatahts tgpeesened dgydvpkpp pavlarrtl
 781 disnasssf gwlsldgdptn fnegsqvper ppkpfprrin serkassyqq gggatanpva
 841 tapspqlsse ierlmsqgys yqdqkalvi ahnniemakn ilrefvsiss pahvat
 (SEQ ID NO:6)

FIG. 3B

1 mansmngrnp ggrgggnprkg rilgiidaiq davgppkqaa adrrtvektw klmdkvvrlc
 61 qnpklqlkns ppyildilpd tyqhlrlils kyddnqklaq lseneyfkiy idslmkkskr
 121 airlfkegke rmyeeqsqdr rnltklslif shmlaeikai fpngqfqgdn fritkadaae
 181 fwrukffgdkt ivpkvfrqc lhevqisss leamalksti dltcndyisv fefdiftrlf
 241 qpwgssilrnw nflavthpgy maflytdevk arlkystkp gsyifrlsct rlgqwaigyv
 301 tgdgnilqti phnkplfqal idgsregfyl ypdgrsynpd ltglceptph dhikvtqeey
 361 elycegmstf qlckicaend kdvkiepcgh lmctsclaw qesdgqgcpf crceikgtep
 421 iivdpfdprd egsrccsiid pfgmpmldld ddddreeslm mnrlanvrkc tdrqnspvts
 481 pgssplaqrr kqpdpplqip hslppvppr ldliqkgivr spcgsptgsp ksspcmvrkq
 541 dkplpapppp lrdpppppe rpppippdnrs lsrhiahves vpsrdppmple eawcprdvfg
 601 tnqlvgcrll gegspkpgit assnvngrhs rvgsdpvlnr khrrhdpyle gakvfsnghl
 661 gseeydvppr lspppvttl lpsikctgpl anlsktrd pveedddeyk ipsshpvsln
 721 sqpshchnvk ppvrscdngh cmngthgps sekksnipdl siylkgdvd sasdpvplpp
 781 arpptrdnpk hgsslnrtps dydlipllg edafdalpps lppppparh sliehskppg
 841 sssrpssqgd lfllpsdpfv dlasgqvplp parrlpgevn ktnrtsqdyd qlpscsgsq
 901 aparppkprp rrtapeihhr kphgpeaale nvdakiaklm gegyafeevk raleiaqnnv
 961 evarsilref afpppvspnl nl (SEQ ID NO:7)

FIG. 4A

1 mctsclawq esdgqgcpfc rceikgtep ivdpfdrde gsrrccsiidp fsipmldld
 61 dddreeslmm nrlasvrkct drqnsptsp gssplaqrrk pqpdplqiph lslppvpprl
 121 dliqkgivrs pcgsptgspk sspcmvrkqd klpapppl rdppppperp ppippdnrls
 181 rhfhhgesvp srdqpmplea wcprdáfgtn qvmgcrilgd gspkpgvtan sslngrhsrm
 241 gseqvlnrkh rrhdlpsega kfvsnghlat eeydvpprls ppppvtllp sikctgplan
 301 csektrdtv eddddeykip sshpvslnsq pshchnvkap vrscdnghci lngthgapse
 361 mkksnipdlg iylkedafad alppslppp pparhslih skpgsssrp ssgqdlflpp
 421 sdppfdptsg qvplpparra agdsgkanra sqdydqlpss sdgsqaparp pkprprtapt
 481 eihhrkphgp eaalenvdak iaklmgegya feevkralei aqnnvevars ilrefafppp
 541 vsprlnl (SEQ ID NO:8)

FIG. 4B

1 malavapwgr qweearalgr avrmlqrlee qcvdprlsvs ppslrdllpr taqlrevah
61 srraaggggp ggpggsgdfl liylanleak srqvaallpp rgrrsandel fragsrlrrq
121 laklaiifsh mhaelhalfp ggkycghmyq ltkapahtfw rescgarcvl pwaefesllg
181 tchpvepgct alalrttidl tcsghvsife fdvfrtrlfqp wptllknwql lavthpgyma
241 fltydevqer lqacrdkpgs yifrpctrl gqwaigvss dgsilqtipa nkplsqvllle
301 gqkdgfylp dgkthnpdlt elgqaepqqr ihvseeqlql ywamdstfel ckicaesnkd
361 vkiepcghll cscclaaawqh sdsqtcpfcr ceikgweavs iyqfyggata edsgnssdqe
421 grelelgqvp lsapplpprp dlpprkprna qpkvrllkgn spaalgpqd papa

(SEQ ID NO:9)

FIG. 5A

1 maaaaaprgw qrgepralsr avkllqrlee qcrdprmwvtg ppslrdllpr taqllevak
61 arrearedpe gpggaddfla iylanlevkg rqvaellppr gkkdvnqdvf regsrfrql
121 aklalifshm haelsalfpa gkycghlyql tkgsahifwr qnchgvrvcvlp waefqslca
181 chpvepgptm qalrstldlt cnghvsvfef dvftrlfqpw ptllrnwql avnhpgymaf
241 ltydevqtrt qayrdkpgsy ifrpctrl gwaigvssd gsilqtipin kpllvqllkg
301 qkdgiflfpd gkkhnpdlte lcrvepyqri qvseeqlly qamnstfqlc kicaerdkdv
361 riepcghllc scclsawqds dsqtcpfcr eikgreavsi cqaqerptev rtaadgsrdn
421 chqeaeeqkl gpvipsapsl 1pedqfpqgp qdkgwltlap lalprlrpppl plpkmasvlw
481 evtsrprare eateess (SEQ ID NO:10)

FIG. 5B

1 mgpppgagvs crggcgsrl lawcflals pqapgsrgae avwtaylnvs wrvphtgvnr
61 tvwelseegv yqqdsplev agvlvppdg galnacnph nftvptvwgs tvqvswlali
121 qruggctfad kihlayerga sgavifnfpq trnevipmsh pgavdivaim ignlkgtkil
181 qsiqrgiqvt mvievgkkhg pvnhyisiff vsvsffiita atvgyfifys arrlrnaraq
241 srkqrqlkad akkaigrlql rtkqgdkei gpdgdscavc ielykpndl viltcnhifh
301 ktcvdpwlle hrtcpmckcd ilkalgied vedgsvslqv pvsneisnsa ssheenrse
361 tassgyasvq gtdeappleh vqstneslql vnheansvav dviphvdnpt feedetpnqe
421 tavreiks (SEQ ID NO:11)

FIG. 6A

1 mgpppgigvy crggcgaarl lawcflals phapgsrgae avwtaylnvs wrvphtgvnr
61 tvwelseegv yqqdsplev sgvlvppdg galnacnph nftvptvwgs tvqvswlali
121 qruggctfad nihlayerga sgavifnfpq trnevipmsh pgagdivaim ignlkgtkil
181 qsiqrgiqvt mvievgkkhg pvnhyisiff vsvsffiita atvgyfifys arrlrnaraq
241 srkqrqlkad akkaigklql rtkqgdkei gpdgdscavc ielykpndl viltcnhifh
301 ktcvdpwlle hrtcpmckcd ilkalgied vedgsvslqv pvsneasnta spheedsrse
361 tassgyasvq gadeappleh aqsanenlql vnheansvav dvvphvdnpt feedetpdqe
421 aavreiks (SEQ ID NO:12)

FIG. 6B

5 1 magaaspca gcpqgapsda evlhlcrsle vgtvmtlfys kksqrperkt fqvkletraqi
 61 twsrgadkie gaidireike irpgktsrdf dryqedpafr pdqshcfvil ygmefrlktl
 121 slqatsedev nmwikglwl medtlqapt lqierwlrkq fysvdrnred risakdlknm
 181 lsqvnyrvpn mrflrerltd leqrsgdity gqfaqlyrl mysaqktmdl pfleastlra
 241 gerpelcrvs lpefqflld yqgelwavr lqvqefmlsf lrdplreiee pyffldefvt
 301 flfskensvw nsqldavcpd tmnnplshyw issshntylt gdqfsessl eayarclrmg
 361 crcielcdwd gpdgmpviyh ghtlkkikf sdvlhtikeh avaseyvpi lsiedhcsia
 421 qqrnmaqyfk kvlgdtlltk pveisadgip spnqlkrkil ikhkklaegs ayeevptsnn
 481 ysendisnsi kngilyledp vnhephyf vtsskiyys eetssdggne deeepkevss
 541 stelhsnekw fhgklgagrd grhiaealit eycietgapd gsflvreset fvgdytlfsw
 601 rngkvqhcrai hsrqdagtpp ffltdnlvfd slydlihyq qvplrcnefe mrlsepvpqt
 661 naheskewyh aslraqaeh mlmrprdg flvrkrnepn syaisfraeg kikhcrvqge
 721 ggtvmlgnse fdslvldisy yekhplyrk klrypineea lekigtaepd ygalyegrnp
 781 gfyveanmp tfkcavkalf dykaqredel tfiksaiqn vekqeggwrr gdyggkkqlw
 841 fpxnyveemv npvalepere hldensplgd llrgvldvpa cqiairpepk nnrlfvfsis
 901 masvahwsld vaadsqeelq dwvkkireva qtdarltte kimerrkkia lelselvvyc
 961 rpvpfdeeki gteracyrdm ssfpetaek yvnkakgkkf lqynrlqlsr iypkgqrlds
 1021 snydplpmwi cgsqlvalnf qtpdkpmqmn qalftgrhc gyvlpstmr
 deafdpfdks
 1081 slrglepcal sievlgarhl pkngngivcp fveievagae ydstkqktes
 vvdnglnpvw
 1141 pakpfhffqis npefaflrfv vyeedmfsdq nflagatfpv kglktgyrav
 plknnyseal
 1201 elaslikid ifpakqengd lspfsgtslr ergsdasgql fhgraregsf
 esryqqpfed
 1261 frisqehlad hfdsrerrap rrtrvngdn 1 (SEQ ID NO:13)

FIG. 7A

1 mefrlktls1 qatsedevnm wikglwlme dtlqaatplq ierwlrkqfy svdrnredri
 61 sakdlknmls qvnyrvpnmr flrerltdle qrsgdityqq faqlyrslmy saqktmdlfp
 121 letnalrtge rpehcqvsis efqqflleyq gelwavrdrq vqefmlsflr dplreieepy
 181 ffldelvtfl fskensvwns qldavcpdtm nnplshywis sshntyltg qfsessle
 241 yarclrmgr cieldcdwg dpmpviygh tlttkikfsl vltikehaf vaseypvils
 301 iedhcsiaqq rnmaghfrkv lgdtlltkpv diaadglpsp nqlrrkilik hkklaegsay
 361 eevptsvmys endisnsikn gilyledpvn hephyfvl tsskiysee tssdggned
 421 eepkeassst elhssekwfh gklgagrdgr hiaealitcietgapdgs flvresetfv
 481 gdytlfswr gkvqhcraihs rqdagtpkff ltdnlvfdsl ydlihyqgv plrcnefemr
 541 lsepvpqtna heskewyhas ltraqaehml mrvprdgafl vrkrnepnsy aisfraegki
 601 khcrvqgeqg tvmlgnsefd slvldlisye khplyrkml rypineeaale kigtaepdyg
 661 alyegrnpqf yveanmpf kcaavkalfdy kaqredelte tksaiqnve kqdggwrgd
 721 yggkkqlwfp snyeemimp avleperehl densplgdll rgvldvpacq iairpegknn
 781 rlfvfsismp svaqwsldva adsqeelqdw vkkirevaqt adarlttekm merrkkiale
 841 lselvvycrp vpdeekigt eracyrdmss fpetkaeyv nkakgkkflq ynrlqlsriy
 901 pkgrldssn ydplpmwicg sqlvalnfqtd pdkpmqmnqf lfmagghcgv vlpstmrde
 961 afdpfdkssl rglepcvici evlgarhlpk ngrgivcpfv eievagae yd stkgktes
 1021 dnglnpvwpa kpfhffqisnp efaflrfvvy eedmfsdqnf laqatfpvkg
 lktgyravpl
 1081 knnyselel aslllikidif pakengdlsp fsgislrera sdassqlfhv
 raregsfear
 1141 yqqpfedfri sqehladhfd srerraprr rvngdnrl (SEQ ID NO:14)

FIG. 7B

1 mspflrigls nfdcgscqsc qgeavnpyca vlvkeyvese ngqmyiqkqp tmyppwdstf
 61 dahinkgrvm qivkgknvd lisettvely slaercrkn gkteiwlelk pggrmlmnar
 121 yflemsdtkd mnefetegff alhqrrgaik qakvhvkvch eftatffpqp tfcsvchefv
 181 wglnkqgyqc rqcnaaihkk cidkviaakt gsainsretm fhkerfkidm phrfkvynyk
 241 sptfcehcgt llwglarqgl kcdacgmnvh hrcqtkvanl cgingqklmae alamiestqq
 301 arclrdteqi freqpveigl pcsiknearp pclptpgkre pggiswespl devdkmchlp
 361 epelnkerps lqiklkiedf ilhkmlgkgs fgkvflaefk ktnqffaika lkkdvvlmd
 421 dvectmvekr vlslawehpf lthmfctfqf kenlffvmey lnggdlmyhi qschkfdlsr
 481 atfyaaeiel glqflhskgi vyrdlkldni lldkdghiki adfgmckenm lgdaktntfc
 541 gtpdyiapei llgqkynhsv dwssfgvlly emligqspfh ggdeeeelfhs irmdnpypr
 601 wlereakdil vklfvrepek rlgvrgdirq hplfreinwe elerkeidpp frpkvkspfd
 661 csnfdkefln ekprlsfadr alinsmdqnm frnfsfmnpq merlis (SEQ ID
 NO:15)

FIG. 8A

1 mspflrigls nfdcgscqac qgeavnpyca vlvkeyvese ngqmyiqkqp tmyppwdstf
 61 dahinkgrvm qivkgknvd lisettvely slaercrkn grteiwlelk pggrmlmnar
 121 yflemsdtkd msefenegff alhqrrgaik qakvhvkvch eftatffpqp tfcsvchefv
 181 wglnkqgyqc rqcnaaihkk cidkviaakt gsainsretm fhkerfkidm phrfkvynyk
 241 sptfcehcgt llwglarqgl kcdacgmnvh hrcqtkvanl cgingqklmae alamiestqq
 301 arslrdsehi freqpveigl pcstkntrp pcvptpgkre pggiswdspl dgsnksagpp
 361 epevsmrrts lqkklkiddf ilhkmlgkgs fgkvflaefk rtnqffaika lkkdvvlmd
 421 dvectmvekr vlslawehpf lthmfctfqf kenlffvmey lnggdlmyhi qschkfdlsr
 481 atfyaaevil glqflhskgi vyrdlkldni lldrdghiki adfgmckenm lgdaktntfc
 541 gtpdyiapei llgqkynhsv dwssfgvlly emligqspfh ggdeeeelfhs irmdnpypr
 601 wlereakdil vklfvrepek rlgvrgdirq hplfreinwe elerkeidpp frpkvkspfd
 661 csnfdkefls ekprlsfadr alinsmdqnm fsnfssfinpg metlics (SEQ ID
 NO:16)

FIG. 8B

1 mmaaeagsee ggpvttagagg ggaaagssay pavcrvkipa alpvaapyp glvetgvagt
 61 lgggaalgse flgagsvaga lggagltggg taagvagaaa gvagaavagg sgdmaltklp
 121 tsllaetlgi gggfplppp pylpplgagl gtvdegsld gpeyeeeava ipltapptnq
 181 wyhgkldrti aeerlrqagk sgsyliresd rrpgsfvlsf lsqmnvnhf rriamcgdy
 241 iggrrfssls dligyyshvs cllkgeklly pvappepved rrrvrailpy tkvpdtdeis
 301 flkgdmfivh neledgwmwv tnrltdeqgl ivedlveevg reedphegki wfhgkiskqe
 361 aynllmtvgq vcsflvrpsd ntpgdyslyf rtneniqrkf icptpnqfm mggryynsig
 421 diidhyrkeq iveggyilkp vpmqdqeqv1 ndtvdgkeiy ntirrktkda fyknivkkgy
 481 llkkgkgkrw knlyfilegs daqliyfese kratkpkgl dlsvcsvyvv hdslfgrpnc
 541 fqivvvhfse ehyifyfage tpeqaedwmk glqafcnlrk sspgtsnkrl rqvsslvlhi
 601 eeahklpvkh ftncpnyi nsvqvaktha reggnpvwse efvfddlpd inrfeitlsn
 661 ktkkskdpti lfmrcqlsrl qkghatdewf llsshipk iepgslrvra rysmekimpe
 721 eeysefkeli lqkelhvyya lshvcgqdr1 llasillrif lhekleslll ctln dreism
 781 edeattlfra ttlastlmeq ymkatqfv hhalkdsilk imeskqscel spsklekned
 841 vntnlthlln ilselvekif maseilppti ryiygclqks vqhkwpntt mrtrvvsgfv
 901 flrllicpail nprmfniisd spspiaartl ilvaksvqnl anlvefgake pymegvnpfi
 961 ksnkhrmimf ldelgnvpel pdtbehrtl lsrdaalhe icvahsdelr tlsnergaqq
 1021 hvlkkllait ellqqkqnqy tktndv (SEQ ID NO:17)

FIG. 9A

1 mcgdyiggr rfsslsdlig yshvsc1lk gekllypvap pepvedrrrv railpytkvp
 61 dtdeisflkg dmfvhnele dgwmwvtnlr tdeqglived lveevgreed phegkiwfhg
 121 kiskqeaynl lmtvgqvcnf lvrpsdntpg dyslyfrtne niqrfkicpt pnnqfmwgr
 181 ynsigdiid hyrkeqiveg ylkpvpmpq dggqvndtv dgkeiyntir rktkdafykn
 241 ivkkgyllkk gkgkrwknly filegsdaql iyfesekrat kpkglidlsv csvyvhds1
 301 fgrpnccqiv vqhfseehyi fyfagetpeq aedwmkglqa fcslrksspg tsnkrlrqvs
 361 slvhieeah klpvhftnp ycnilynsvq vaktharegg npvwseefvf ddldpdpinrf
 421 eitlsnktkk skdpdilfmr cqslrlqkgh atdewflss hiplkgiepg slrvrareysm
 481 ekimpeeeys efkelilqke lhvvalshv cgqdrllas illkiflhek leslllctln
 541 dreismedea ttlfrattla stlmegymka tatqfvhhal kdsilkimes kqscelspsk
 601 leknedvntn lahllsilse lvekifmase ilpptrlyiy gclqksvqhk wptnntmrtr
 661 vvsqfvflrl icpailnprm fniisdspsp iaartltlva ksvqnlalnv efgakepyme
 721 gvnpfiksnk hrmmf1del gnvpelpdt ehsrtldlsrd laalheicva hsdelrtlsn
 781 ergvqqhvlk kllaitellq qkqngytktv dir (SEQ ID NO:18)

FIG. 9B

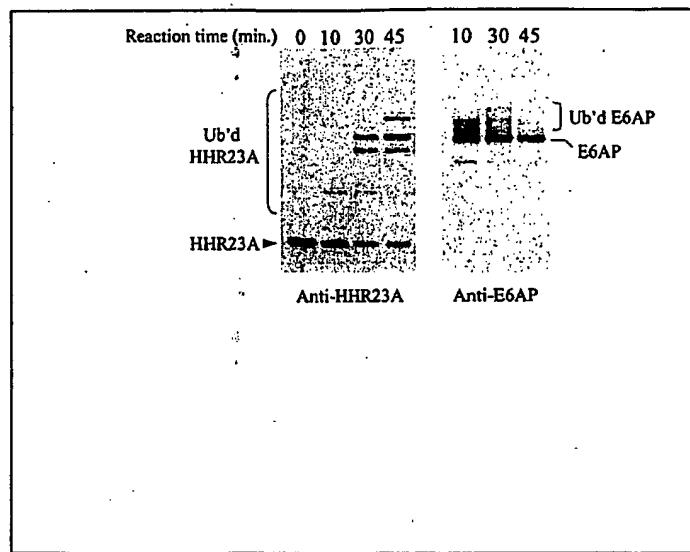


FIG. 10

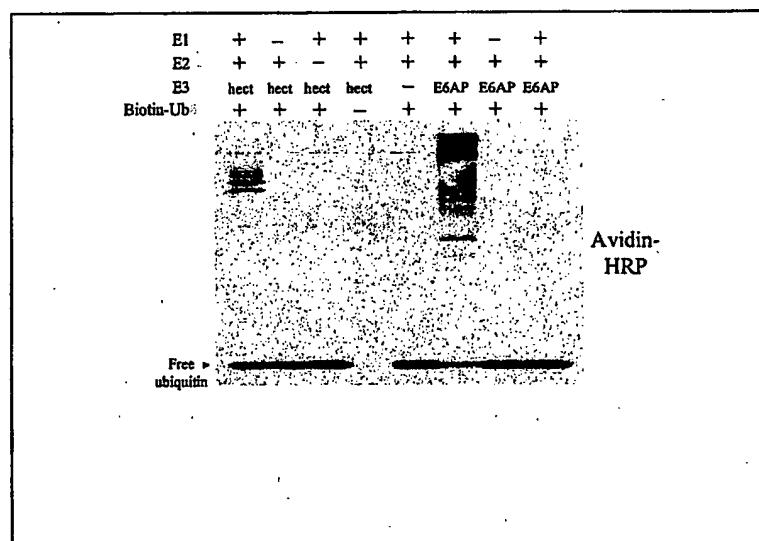


FIG. 11

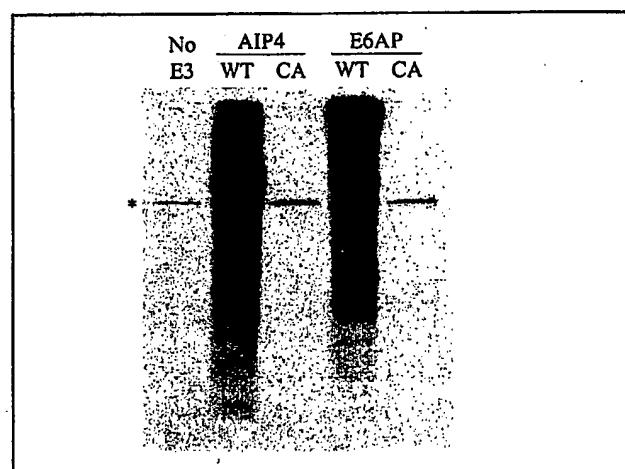


FIG. 12

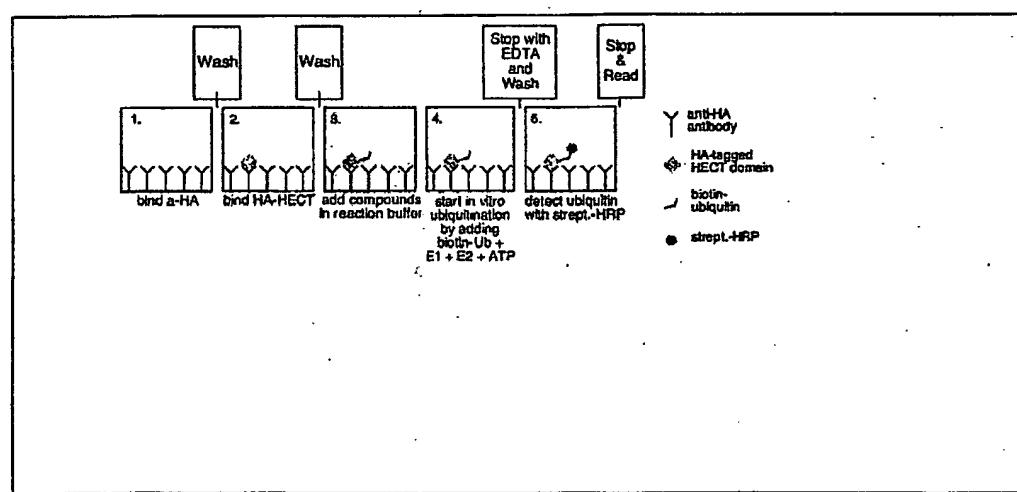


Fig. 13

Fig. 14A

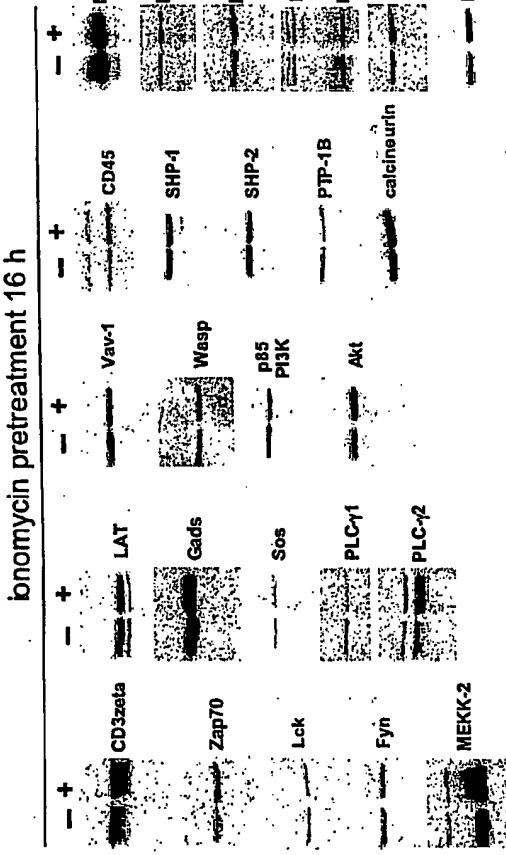


Fig. 15A

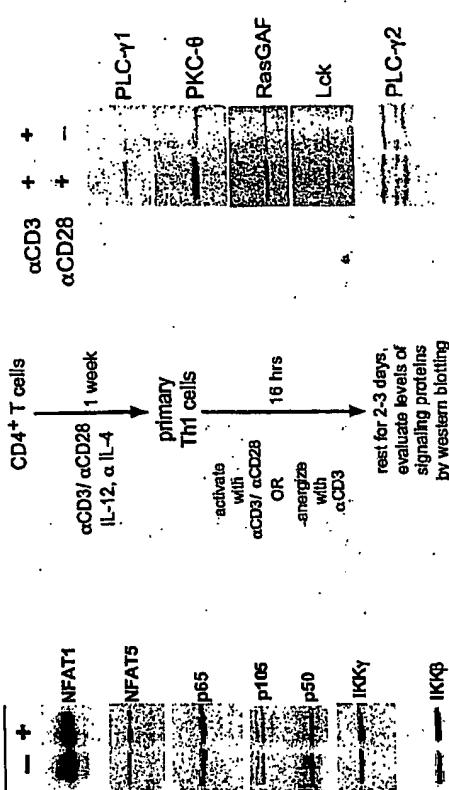


Fig. 14B

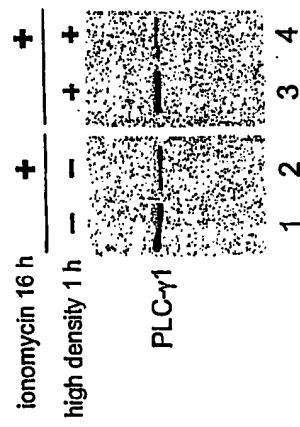


Fig. 14C

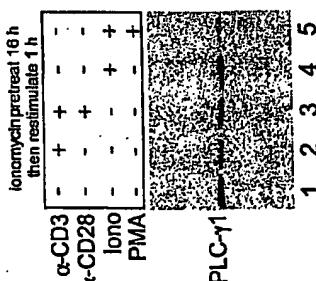


Fig. 14D

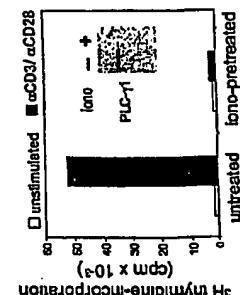


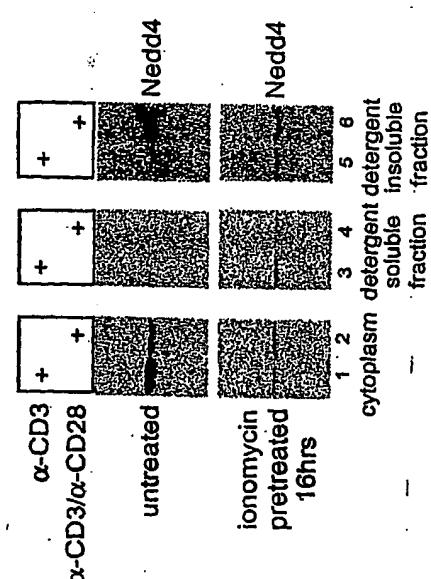
Fig. 15B

Fig. 16A

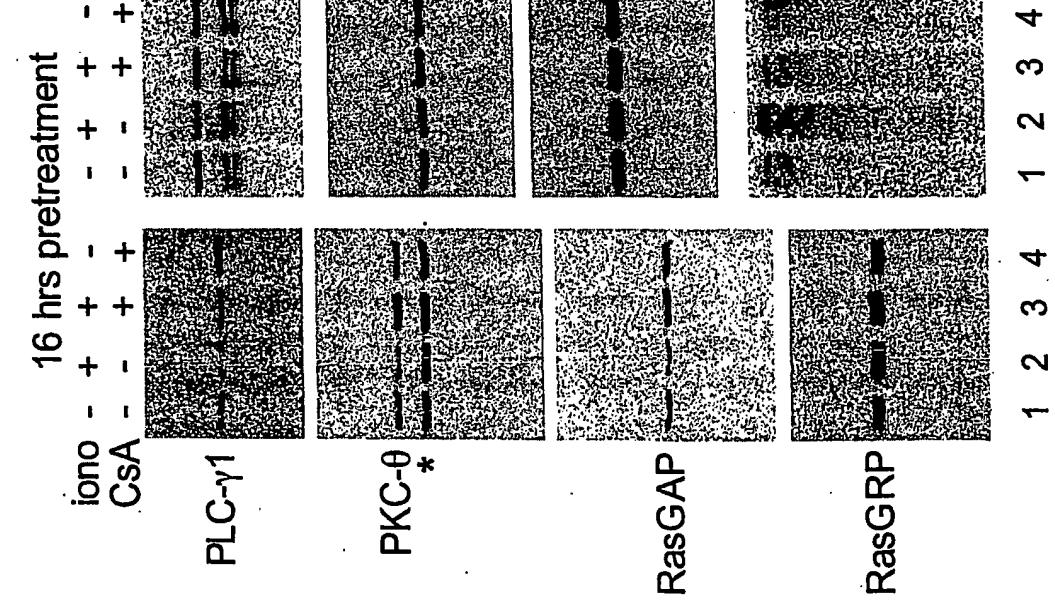


Fig. 21

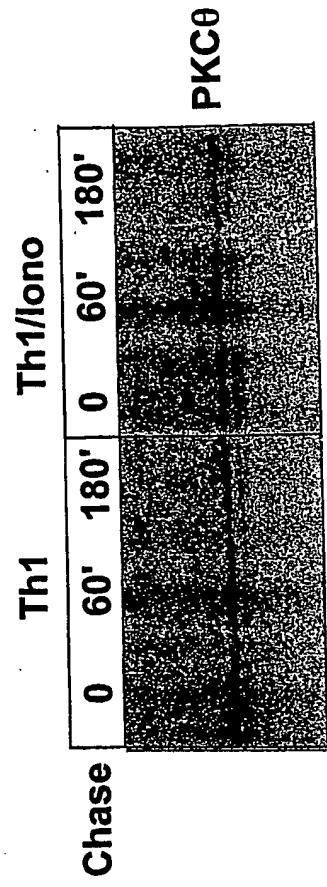
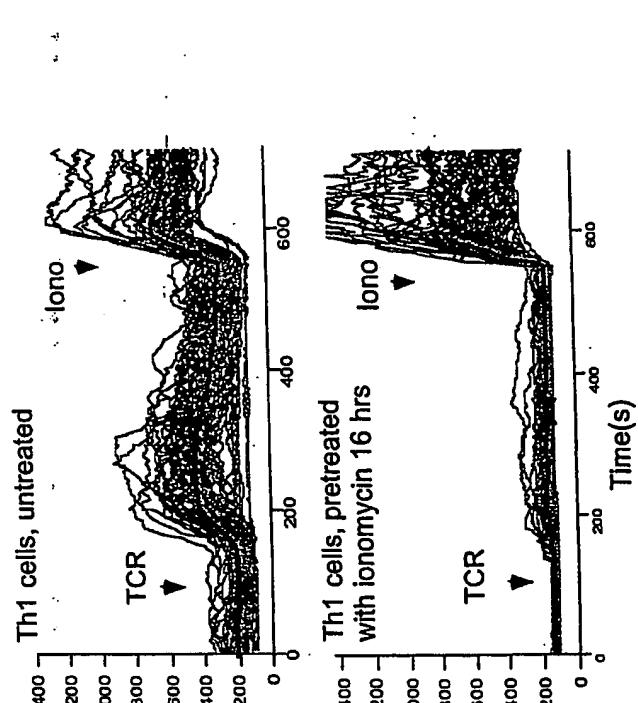


Fig. 14E



1 2 3 4 1 2 3 4

Fig. 16B

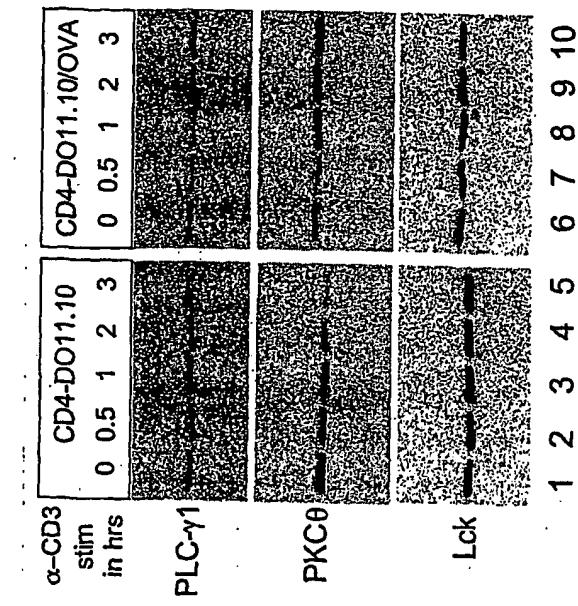


Fig. 16D

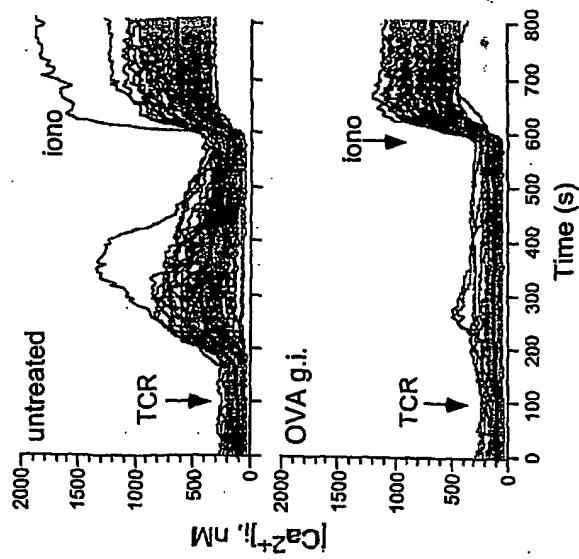


Fig. 16C

DO11.10 DO11.10/OVA

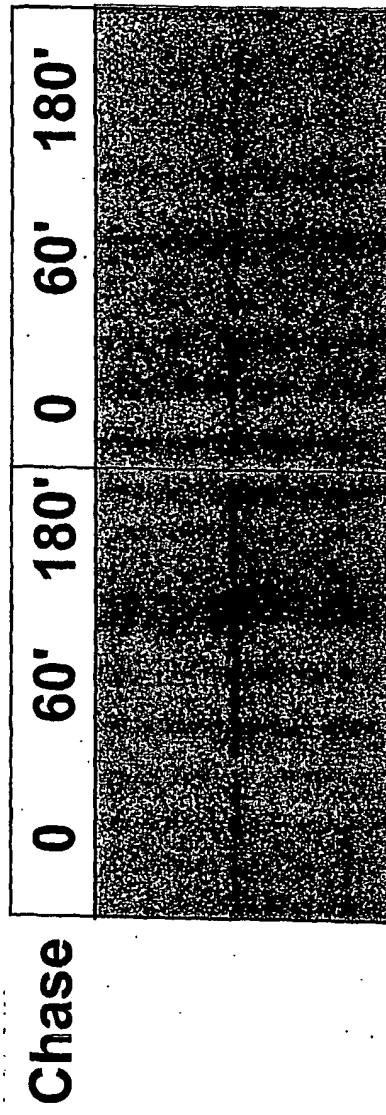


Fig. 17A

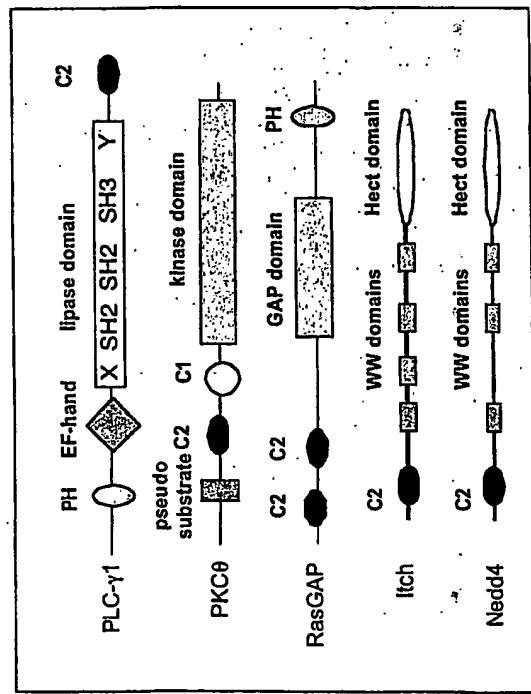


Fig. 15D

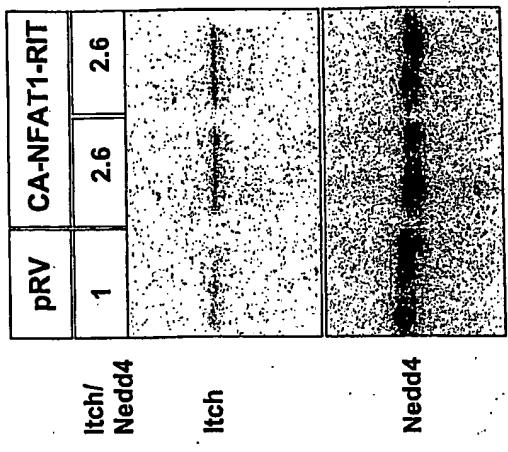


Fig. 15C

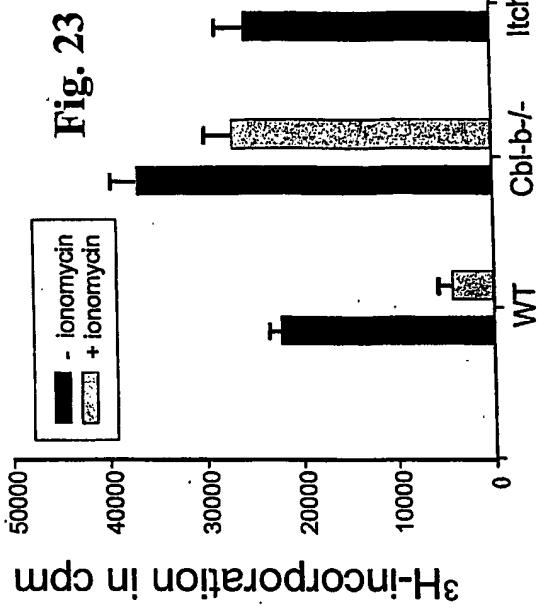
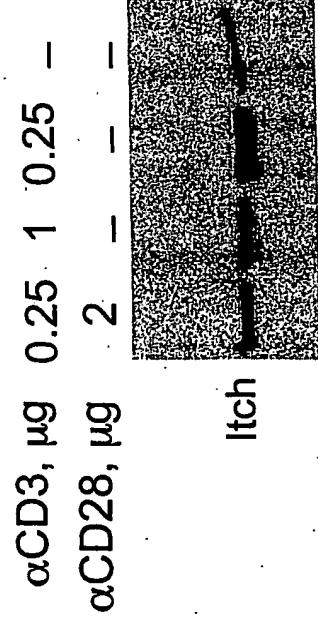


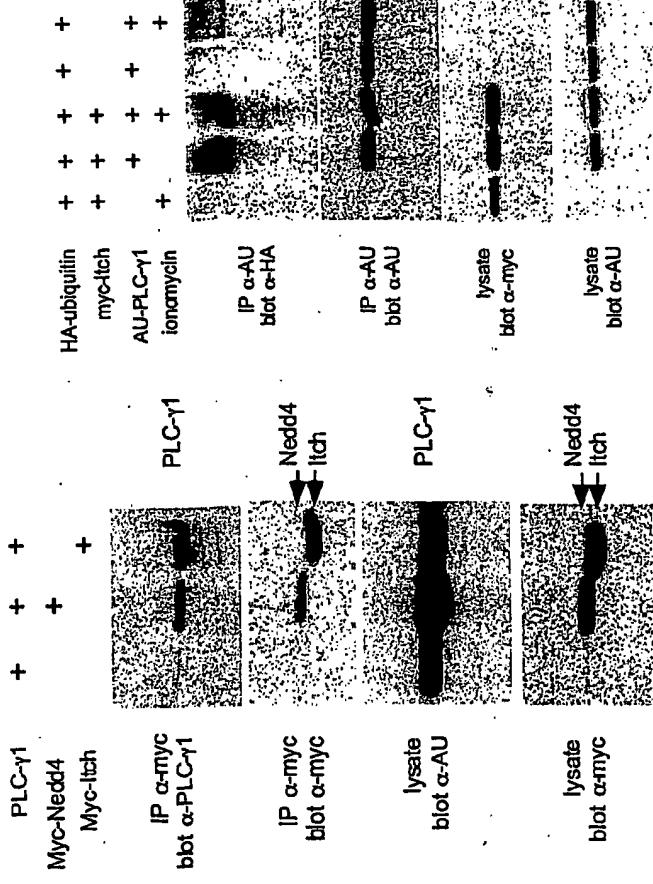
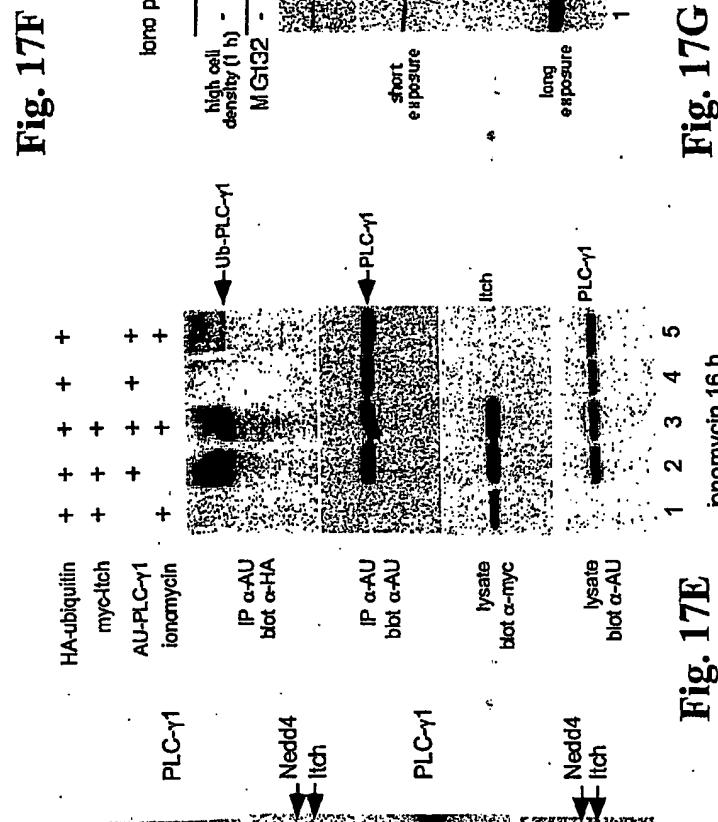
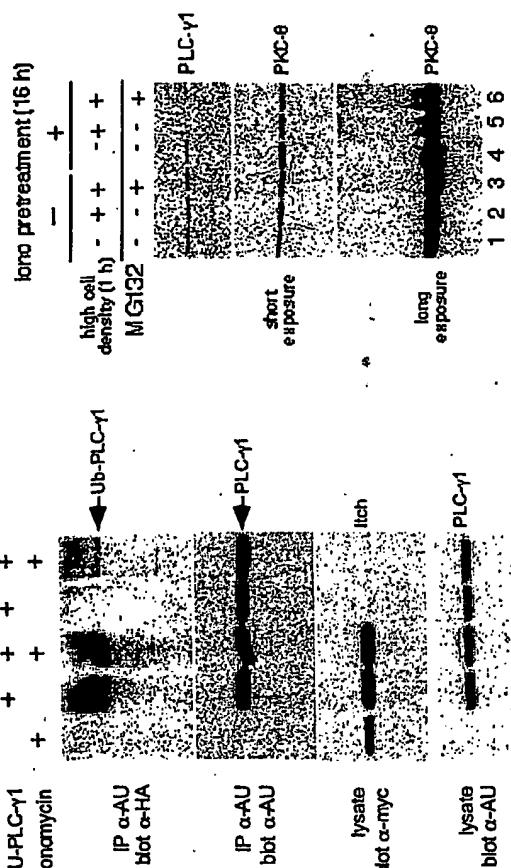
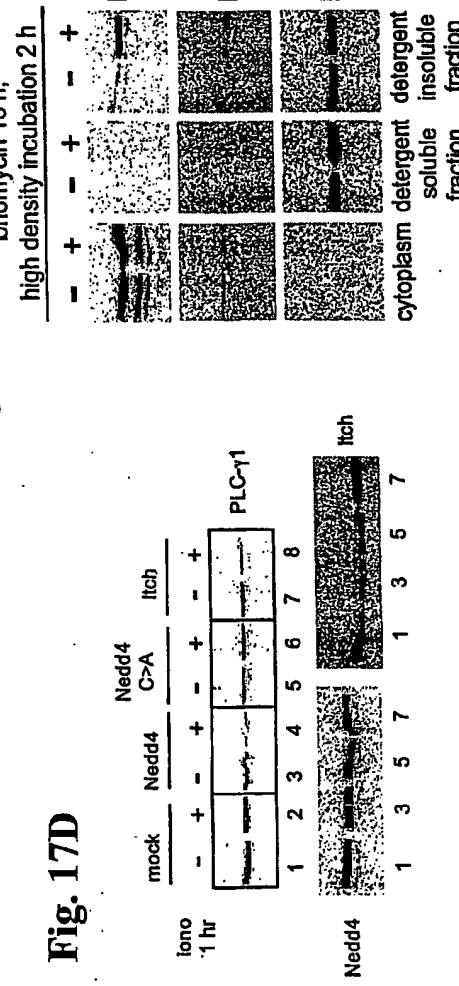
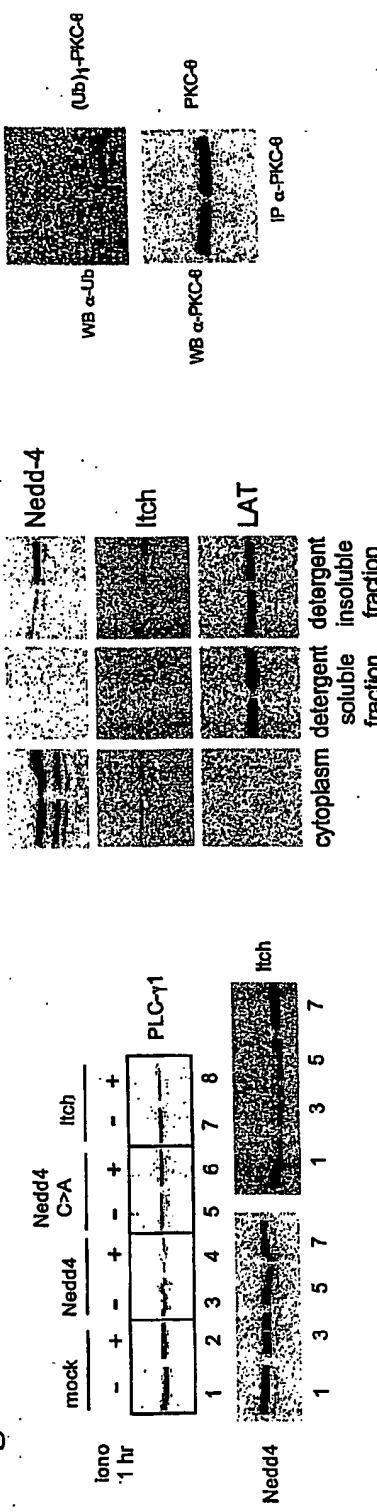
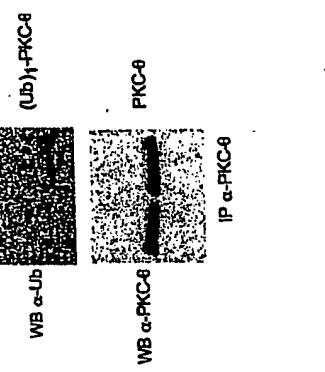
Fig. 17B**Fig. 17C****Fig. 17F****Fig. 17E****Fig. 17D****Fig. 17F****Fig. 17G**

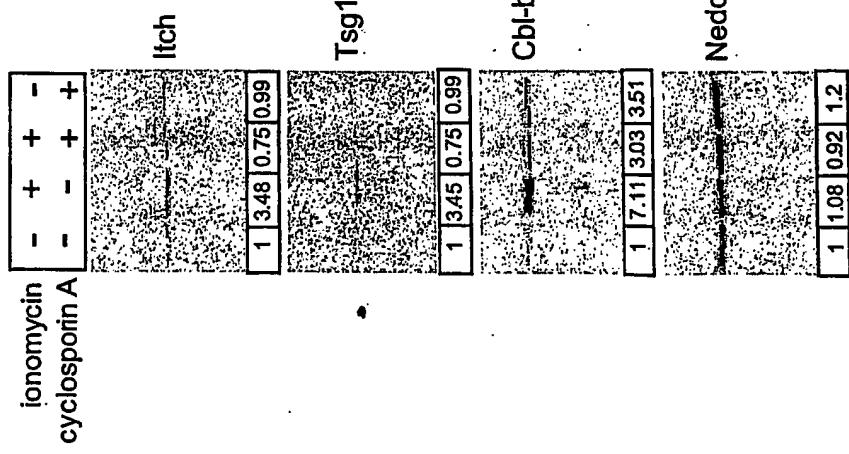
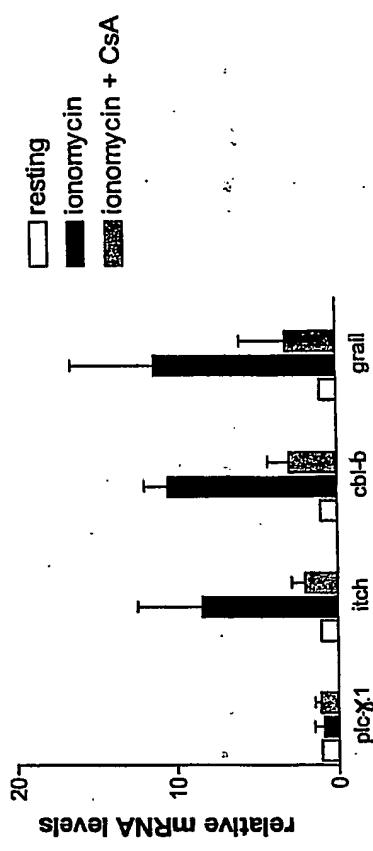
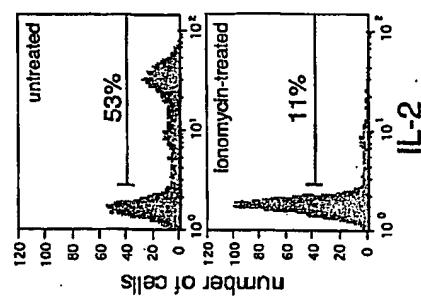
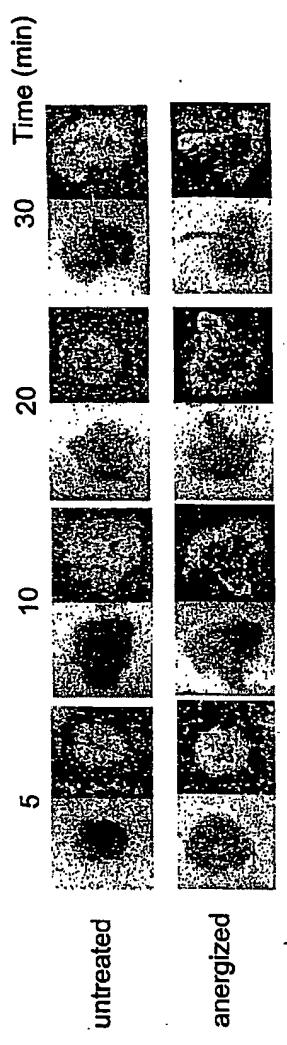
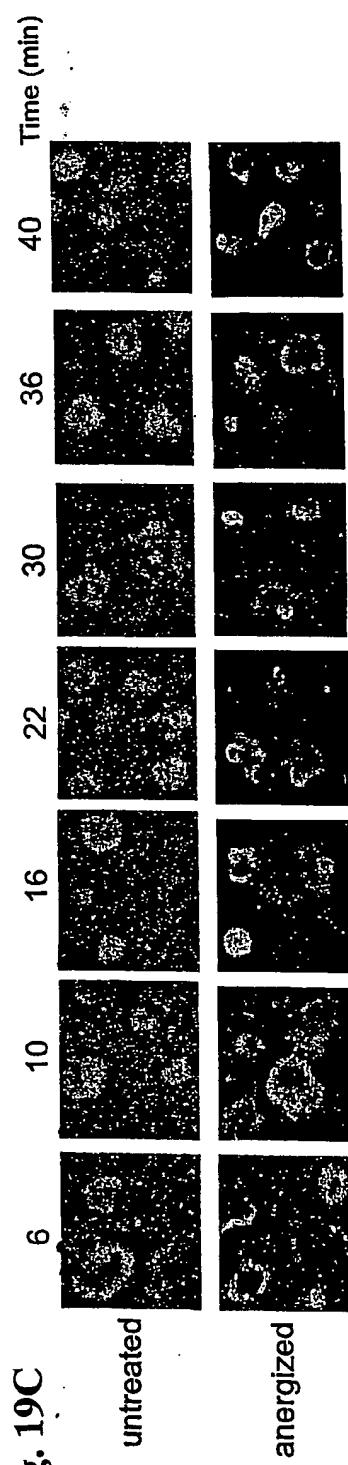
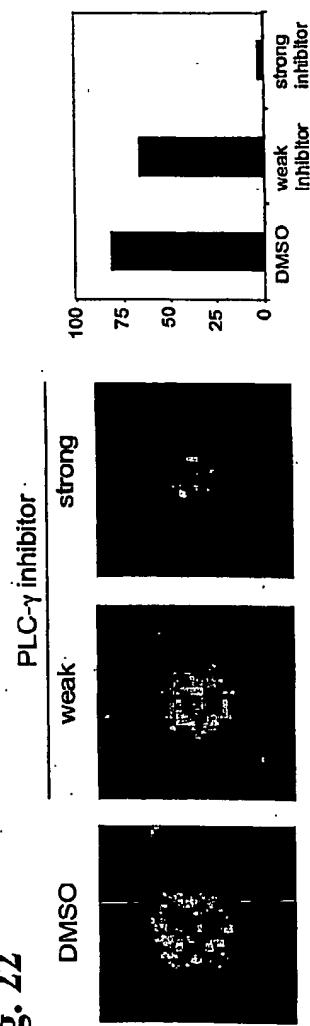
Fig. 18A**Fig. 18B**

Fig. 19A**Fig. 19B****Fig. 19C****Fig. 22**

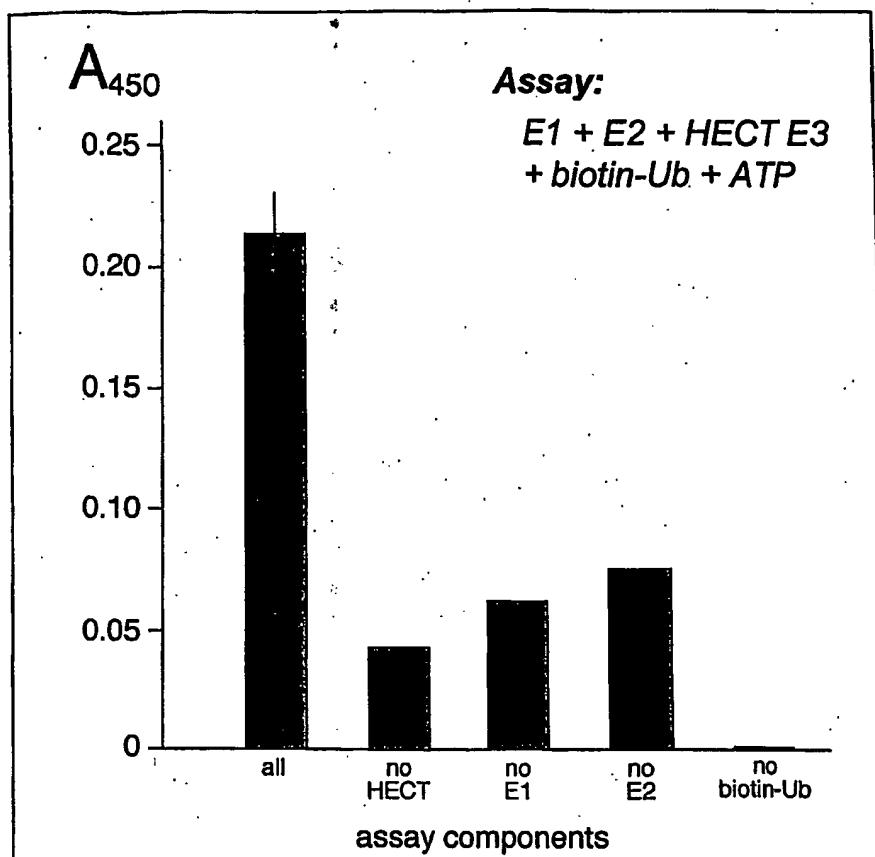
1 mavesqlkk mmskykyrdl tvretvnvit lykdlkpvl syvfndgssr elmnltgtip
61 vpyrgntyni piclwldty pynppicfvk ptssmtiktg khvdangkiy lpylhewkhp
121 qsdllgliqv mivvfgdepp vfsrpisasy ppyqatgppn tsympgmpgg ispypsgypp
181 npsgypgcpy ppggypatt ssqypsppv ttvgpsrdgt isedtirasli isavsdklrw
241 rmkeemdraq aelnalkte edlkkghqkl eemvtrldqe vaevdkniel lkkkdeelss
301 alekmenqse nndideviip taplykqiln lyaeenaiet tifylgealr rgvidldvfl
361 khvrllsrkq fqlralmqka rktagsdl (SEQ ID NO:19)

Fig. 20A

1 mavesqlkk mmskykyrdl tvrqtvnvia mykdlkpvl syvfndgssr elvnltgtip
61 vryrgniyni piclwldty pynppicfvk ptssmtiktg khvdangkiy lpylhdwkhp
121 rselleliqi mivifgepp vfsrptvsas yppytatgpp ntsympgmps gisapsgyp
181 npsgypgcpy yppagypat tssqypspp vttvgpsrdg tisedtiras lisavsdklr
241 wrmkeemdraq qaelnalkrt eedlkkghqk leemvtrldq evaevdknie lkkkdeels
301 salekmenqs enndidevii ptaplykqil nlyaeenaiet dtifylgeal rrgvidldvfl
361 lkhvrllsrk qfqlralmqk arktagsdl y (SEQ ID NO:20)

Fig. 20B

Fig. 24



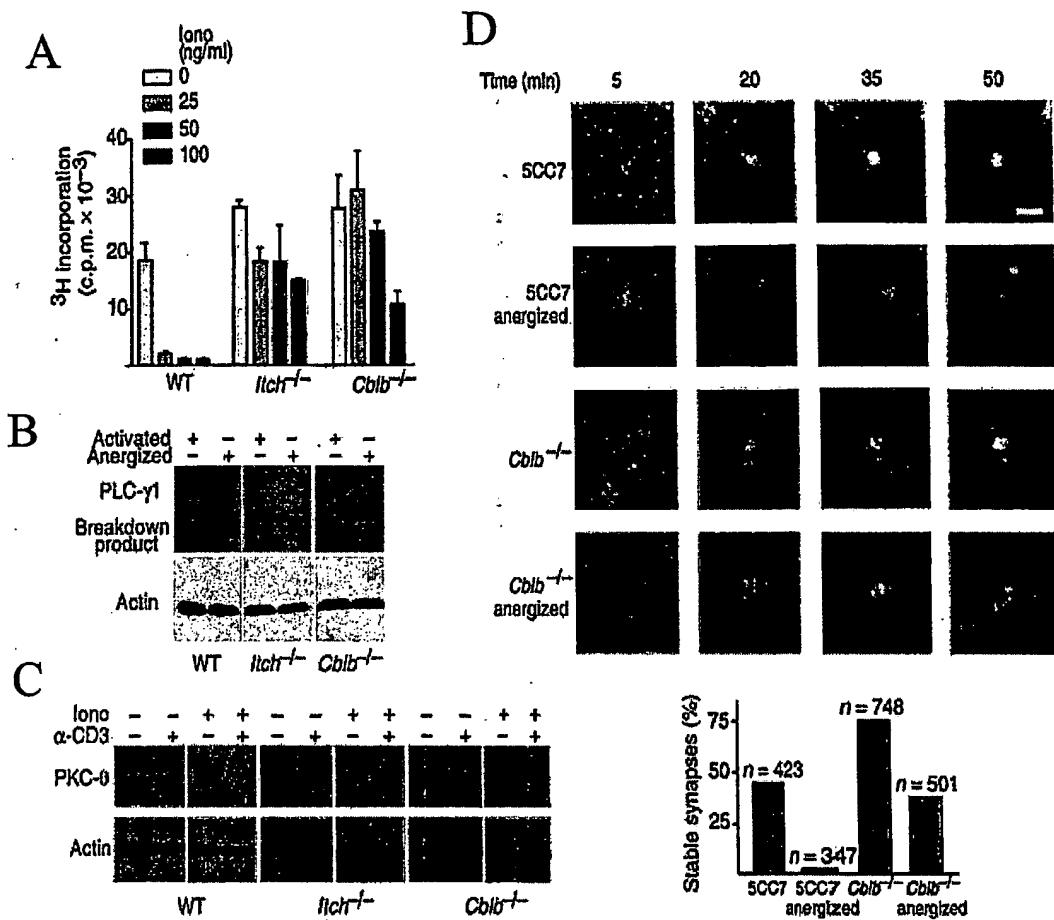


Fig. 25

**This Page is Inserted by IFW Indexing and Scanning
Operations and is not part of the Official Record**

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images include but are not limited to the items checked:

- BLACK BORDERS**
- IMAGE CUT OFF AT TOP, BOTTOM OR SIDES**
- FADED TEXT OR DRAWING**
- BLURRED OR ILLEGIBLE TEXT OR DRAWING**
- SKEWED/SLANTED IMAGES**
- COLOR OR BLACK AND WHITE PHOTOGRAPHS**
- GRAY SCALE DOCUMENTS**
- LINES OR MARKS ON ORIGINAL DOCUMENT**
- REFERENCE(S) OR EXHIBIT(S) SUBMITTED ARE POOR QUALITY**
- OTHER:** _____

IMAGES ARE BEST AVAILABLE COPY.

As rescanning these documents will not correct the image problems checked, please do not report these problems to the IFW Image Problem Mailbox.